Paber ja papp. Ruutmeetrimassi määramine (ISO 536:2012)

en. Paper and board - Determination of grammage (ISO 536:2012)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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EUROPEAN STANDARD

EN ISO 536

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 85.060

Supersedes EN ISO 536:1996

English Version

Paper and board - Determination of grammage (ISO 536:2012)

Papier et carton - Détermination du grammage (ISO 536:2012)

Papier und Pappe - Bestimmung der flächenbezogenen Masse (ISO 536:2012)

This European Standard was approved by CEN on 14 July 2012.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN ISO 536:2012) has been prepared by Technical Committee ISO/TC 6 "Paper, board and pulps" in collaboration with Technical Committee CEN/TC 172 "Pulp, paper and board" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2013, and conflicting national standards shall be withdrawn at the latest by January 2013.

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Endorsement notice

The text of ISO 536:2012 has been approved by CEN as a EN ISO 536:2012 without any modification.

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Paper and board — Determination of grammage

1 Scope

This International Standard specifies a method for determining the grammage of paper and board.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 186, Paper and board — Sampling to determine average quality

ISO 187, Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples

ISO 287, Paper and board — Determination of moisture content of a lot — Oven-drying method

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

grammage

mass per unit area

mass of a unit area of paper or board determined by a specific method of test

NOTE Grammage is expressed in grams per square metre.

4 Principle

The area of the test pieces and their masses are determined and the grammage is calculated.

5 Apparatus

5.1 Cutting device, capable of repeatedly cleanly cutting test pieces of the same nominal size, whose area falls within $\pm 1,0$ % of a known area. This shall be checked frequently by measurement and, provided that the above accuracy is attained, the mean area obtained in these checks shall be used for calculating grammage.

With certain types of paper and board it will be found, after carrying out this determination of area, that test pieces cannot be cut with the accuracy just defined; in such instances, the area of every test piece shall be determined individually.

5.2 Balance, sufficiently accurate, over the range of mass for which it is used, to measure to within 0,5 % of the actual mass. It shall be sensitive enough to detect a change of $\pm 0,2$ % in the mass to be weighed and, if the balance is of the direct-reading type, it shall be graduated so that readings may be taken to this degree of accuracy.

Special sheet-weighing balances, designed to weigh test pieces of a given size and which indicate grammage directly, may be used, provided that the above conditions are fulfilled and that the area of each test piece on a single weighing is not less than 50 000 mm^2 (500 cm^2) and not more than 100 000 mm^2 (1 000 cm^2) (see Clause 8 and 9.2).

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